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PN - EP1101570 A 20010523  
 PD - 2001-05-23  
 PR - DE19991055412 19991118  
 OPD - 1999-11-18  
 TI - Drilling- and percussion device  
 AB - The drill/chisel assembly has a drive spindle (19) for the tool with two cogwheels (17,18) of different dimensions. A back gear shaft (1) has a drive pinion (15), and carries a tumble drive (7) for a hammer. A switch sleeve (9) on the shaft (1) is given an axial setting by a switch unit (20), to determine whether the assembly is operating as a drill or a chisel.  
 IN - BONGERS HANS-WERNER (DE);HOFBRUCKER THOMAS (DE);BELOW ARMIN (DE);KARLSSON KENT (DE);RICHTER MARTIN (DE)  
 PA - HILTI AG (LI)  
 EC - B25D16/00M  
 IC - B25D16/00

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TI - Drill/chisel tool for concrete or rock etc has a drive spindle with two different cogwheels and a switch sleeve at the back gear shaft to change the application from a drill to a hammer action  
 PR - DE19991055412 19991118  
 PN - US6460627 B1 20021008 DW200269 E02D7/06 000pp  
 - EP1101570 A2 20010523 DW200138 B25D16/00 Ger 000pp  
 - DE19955412 A1 20010523 DW200138 B23B45/16 000pp  
 - JP2001193375 A 20010717 DW200144 E21B6/00 007pp  
 - CN1296869 A 20010530 DW200156 B23B45/16 000pp  
 - KR2001050726 A 20010615 DW200171 B23B39/00 000pp  
 PA - (HILT ) HILTI AG  
 IC - B23B39/00 ;B23B45/16 ;B25D16/00 ;E02D7/06 ;E21B1/00 ;E21B6/00  
 IN - BELOW A; BONGERS-AMBROSIUS H; HOFBRUCKER T; KARLSSON K; RICHTER M; BONGERS H; BONGUS-AMBROSIUS H  
 AB - EP1101570 NOVELTY - The drill/chisel assembly has a drive spindle (19) for the tool with two cogwheels (17,18) of different dimensions. A back gear shaft (1) has a drive pinion (15), and carries a tumble drive (7) for a hammer. A switch sleeve (9) on the shaft (1) is given an axial setting by a switch unit (20), to determine

whether the assembly is operating as a drill or a chisel.

- USE - The tool is for working concrete, rock, brickwork and the like, with optional applications as a drill or a chipping chisel.
- ADVANTAGE - The tool is easily and effectively handled, with a variety of applications. It gives a good drilling action, and the hammer energy can be varied with a constant drive shaft rotary speed.
- DESCRIPTION OF DRAWING(S) - The drawing shows a schematic section through the tool, set to operate as a hammer chisel.
- back gear shaft 1
- tumble drive 7
- switch sleeve 9
- drive pinion 15
- cogwheels 17,18
- drive spindle 19
- switch unit 20
- (Dwg.1/4)

USAB - US6460627 NOVELTY - The drill/chisel assembly has a drive spindle (19) for the tool with two cogwheels (17,18) of different dimensions. A back gear shaft (1) has a drive pinion (15), and carries a tumble drive (7) for a hammer. A switch sleeve (9) on the shaft (1) is given an axial setting by a switch unit (20), to determine whether the assembly is operating as a drill or a chisel.

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OPD - 1999-11-18

DS - AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK  
NL PT RO SE SI TR

none

none

none

AN - 2001-357914 [38]

none

none

none